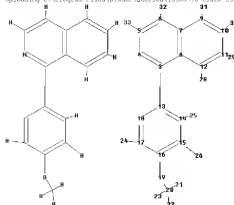


>> file registry

>> Uploading C:\Program Files\ATKINS\QChem\1058370-1\data 23-v 1-1.txt



chain nodes :
 19 20 21 22 23 24 25 26 28 29 30 31 32 33
 ring nodes :
 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
 chain bonds :
 1-13 5-13 6-12 9-31 13-19 13-29 12-28 14-25 15-26 16-19 17-24 19-20 20-21
 20-22 20-23
 ring bonds :
 3-4 10-8 4-5 5-6 6-7 7-8 7-9 8-12 9-10 10-11 11-12 13-14 13-18 14-15
 15-16 16-17 17-18
 exact/ring bonds :
 14-19 19-20
 exact bonds :
 1-13 5-13 6-12 9-31 10-13 11-29 12-28 14-25 15-26 17-24 20-21 20-22 20-23
 overlapped bonds :
 3-4 5-6 4-5 5-6 6-7 7-8 7-9 8-12 9-10 10-11 11-12 13-14 13-18 14-15
 15-16 16-17 17-18

G16,G1,Ge,17,12

G2,Cb,Hv,Cy

Match level :
 31Atom 4Atom 5Atom 6Atom 7Atom 8Atom 9Atom 10Atom 11Atom 12Atom
 13Atom 14Atom 15Atom 16Atom 17Atom 18Atom 19CLASS 20CLASS 21CLASS
 22CLASS 23CLASS
 24CLASS 25CLASS 26CLASS 28CLASS 29CLASS 30CLASS 31CLASS 32CLASS
 33CLASS

L1 STRUCTURE UPLOADED

>> s 11 was full
 FULL SEARCH INITIATED 14:01:38 FILE 'INDUSTRY'
 FULL SCREEN SEARCH COMPLETED - 9291 TO ITERATE

100.0% PROCESSED 9291 ITERATIONS 5 ANIMERS
 SEARCH TIME: 00:00:01

L2 5 BEA 888 FOL L1

>> File output

L3 > s 12 12 L2

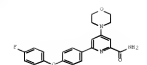
>> d 14 is also listed 1-
 YOU HAVE REQUESTED DATA FROM 12 ANIMERS - CONTINUE? Y/N(Y)

L3 ANIMER 1 OF 12 CAPLUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 20091150116 CAPLUS Full-1000
 DOCUMENT NUMBER: 151152031
 TITLE: Palladium-catalyzed cross-coupling of aryl halides using organotin(II) nucleophiles
 AUTHOR(S): Lee, Hong-Mei; Loh, Fah-Lai; So, Chu-Ming; Lau, Chak-Pui; Chan, Albert S. C.; Kwong, Fuk-Tee
 CORPORATE SOURCE: Open Laboratory of Chirotechnology of the Institute of Molecular, Technology for Drug Discovery and Synthesis, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong
 SOURCE: Synthesis, International Edition (2009), 48(40), 7436-7439, 7436/41-7439/419
 CODEN: ACIEHY; ISSN: 1433-7851
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 151152031
 AB Palladium-catalyzed cross-coupling of aryl halides with organotin(II) nucleophiles led to the formation of biaryl derivatives in good yields.
 IT K116-14-41
 K116-14-41 (K116-14-41) (K116-14-41) (K116-14-41)
 Preparation of biaryl derivs. via palladium-catalyzed cross-coupling of aryl halides with aryltin(II) nucleophiles
 KN 36710-14-4 CAPLUS
 CN Isoquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)



OF CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 (4 CITINGS)
 REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE 88 FORMAT

L3 ANIMER 2 OF 12 CAPLUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 20091150116 CAPLUS Full-1000
 DOCUMENT NUMBER: 151152031
 TITLE: Palladium-Catalyzed Direct Arylation of Amino and Azole Nuclei: Reaction Development, Scope and Applications in Synthesis
 AUTHOR(S): Campana, Louis-Charles; Stuart, David P.; Leclerc, Jean-Philippe; Bertrand-Laperle, Megan; Williams, Eliza; Sun, Mo-Tan; Lavoie, Sandrine; Guilford, Nicolas; Lowenthal, Melany; Koppo, Keith
 CORPORATE SOURCE: Department of Chemistry, University of Ottawa, Ottawa, ON, K1N 6N5, Can.
 SOURCE: Journal of the American Chemical Society (2009), 131(9), 3293-3306
 CODEN: JACS; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 150130611
 92



AB Palladium-catalyzed direct arylation reactions were described with a broad range of amino and azole nucleol. In addition to aspects of functional group compatibility, issues of regioselectivity were explored when mono- and bi-aryls were used. In these cases, both the choice of ligand and the nature of the amino substituents played important roles in determining the regioselective distribution. When azole nucleol were employed, preferential reaction was observed for arylation at C2, which occurred under very mild conditions. Subsequent reactions were observed to occur at C5 followed by arylation at C4. The potential utility of this method was illustrated by its use in the synthesis of a potent sodium channel inhibitor 1 and a 7-azido tyrosine kinase inhibitor 2.
 IT K116-14-41
 K116-14-41 (K116-14-41) (K116-14-41) (K116-14-41)
 Reagents (Reactants); Syn (Synthetic Preparation); PREP (Preparation); NACT (Nucleophilic Aromatic Substitution)
 (regioselective palladium-catalyzed direct arylation of amino and azole nucleol and applications in synthesis)
 KN 36710-05-7 CAPLUS
 CN Isoquinoline, 1-(4-methoxyphenyl)-, 2-oxide (CA INDEX NAME)



IT K116-14-41
 K116-14-41 (K116-14-41) (K116-14-41) (K116-14-41)
 Reagents (Reactants); Syn (Synthetic Preparation); PREP (Preparation); NACT (Nucleophilic Aromatic Substitution)
 (regioselective palladium-catalyzed direct arylation of amino and azole nucleol and applications in synthesis)
 KN 36710-14-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)



US CITING REF COUNT: 39 THERE ARE 39 CAPLUS RECORDS THAT CITE THIS RECORD (33 CITINGS)

REFERENCE COUNT: 108 THERE ARE 108 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANHWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2006-122042 CAPLUS [Full-Text](#)

DOCUMENT NUMBER: 1461274003

TITLE: Cobalt-catalyzed cross-coupling reactions of

heterocyclic chlorides with arylsulfonamide halides and of polyfunctionalized arylsulfonamide reagents with aryl

bromides, chlorides, fluorides and tosylates. Abstract to document cited in CA66(20042)

AUTHOR(S): Korn, Tobias J.; Schade, Matthias A.; Chemnitz, Marthy

M.; Wirth, Stefan; Guevara, Simon A.; Cahier, Gerard; Knochel, Paul

CORPORATE SOURCE: Department Chemie, Ludwig-Maximilians-Universität

München, Munich, 81337, Germany

SOURCE: Synthesis (2006), (21), 3547-3574

CODEN: SYNSDH 1588: 0039-7081

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The wrong graphic abstract was used for this manuscript in the Table of

Contents, both online and in print. The correct version of the reaction

scheme is given.

IT $\text{Cp}^*\text{Co}(\text{py})\text{Cl}_2$, 1-(4-methoxyphenyl)diisquinoline

Rs: SP (Synthetic preparation); PREP (Preparation)

(Preparation of aryl heterocyclic compe. via iron- or cobalt-catalyzed

cross-coupling reaction of chloroheterocycles with arylsulfonamide

halides [abstract])

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

L3 ANHWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2006-122042 CAPLUS [Full-Text](#)

DOCUMENT NUMBER: 1461274042

TITLE: Cobalt-catalyzed cross-coupling reactions of

heterocyclic chlorides with arylsulfonamide halides and of polyfunctionalized arylsulfonamide reagents with aryl

bromides, chlorides, fluorides and tosylates

AUTHOR(S): Korn, Tobias J.; Schade, Matthias A.; Chemnitz, Marthy

M.; Wirth, Stefan; Guevara, Simon A.; Cahier, Gerard; Knochel, Paul

CORPORATE SOURCE: Department Chemie, Ludwig-Maximilians-Universität

München, Munich, 81337, Germany

SOURCE: Synthesis (2006), (21), 3547-3574

CODEN: SYNSDH 1588: 0039-7081

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CONTACT 1461260402

AB A range of aromatic cross-coupler or cross-coupling compe. underwent cross-

coupling reactions with aryl bromides, chlorides, fluorides and tosylates,

leading to polyfunctionalized arams or heterocycles in the presence of cobalt

salts as catalyst. Very mild reaction conditions were needed and, in the

case of cross-coupling compe. in addition, 2 equiv of 8-1-fluorocyclohex-2-ol (20 mol%) were essential as promoters for successful

couplings.

IT $\text{Cp}^*\text{Co}(\text{py})\text{Cl}_2$, 1-(4-methoxyphenyl)diisquinoline

Rs: SP (Synthetic preparation); PREP (Preparation)

(Preparation of aryl heterocyclic compe. via iron- or cobalt-catalyzed

cross-coupling reaction of chloroheterocycles with arylsulfonamide

halides [abstract])

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

US CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS

RECORD (13 CITINGS)

REFERENCE COUNT: 103 THERE ARE 103 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L3 ANHWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2006-122740 CAPLUS [Full-Text](#)

DOCUMENT NUMBER: 1471432553

TITLE: A new synthetic method of 1-methylated isquinolines

AUTHOR(S): Chen, Guo-Feng; Lu, Zheng-Mei; Zhou, Xue-Qin

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

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IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

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RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

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IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

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IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

(Reaction or reaction)

(Preparation, structure, electrochem., photoluminescence and use of iridium

complexes with substituted phenylisquinoline-derived ligands as

triplet emitters in OLEDs)

RS 36710-74-4 CAPLUS

CH Imquinoline, 1-(4-methoxyphenyl)- (CA INDEX NAME)

methoxyphenylisquinoline-9,10-C^{2'}[iridium(III)] (cat.) All of these complexes

are used for the red phosphorescent materials in OLEDs

IT $\text{Ir}(\text{ppy})_3$, 1-(4-methoxyphenyl)isquinoline

Rs: RCT (Reaction); SP (Synthetic preparation); PREP (Preparation); RACT

the device was close to an HPLC specification with C18 chromatography characteristics of [0.66, 0.34]

17 3-¹⁴-9
 RI: RCT (Reactant); RACT (Reactant or reagent)
 [preparation and substituent effects of cyclized phenylisoquinoline
 lidium complexes for highly efficient red LEDs]

RI 36710-76-4 CAPLOS

CI Isoquinoline, 1-[4-methoxyphenyl]- (CA INDEX NAME)



US CITING REF COUNT: 49 THERE ARE 49 CAPLOS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 NUMBER 9 OF 12 CAPLOS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 2001402445 CAPLOS Full-text
 DOCUMENT NUMBER: 14027445

TITLE: New cobalt-catalyzed cross-coupling reactions of heterocyclic chlorides with aryl and heterocyclic boronates

AUTHOR(S): Korn, Tobias J.; Cahiez, Gerard; Knochel, Paul

CORPORATE SOURCE: Department Chemie, Ludwig-Maximilians-Universität München, Munich, 81337, Germany

SYNOPSIS: (2003), (12), 1992-1994

CODEN: STLEJL ISSN: 0930-5214

OTHER SOURCE(S): Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 14027445

AB New cobalt-catalyzed cross-coupling between arylmagnesium halides and 2-heterocyclic chlorides and related heterocycles occur at low temperature leading to 2-arylated heterocycles in good yields

17 3-¹⁴-9-97, 1-[4-methoxyphenyl]isoquinoline

RI: RPH (Synthetic preparation); PRFP (Preparation)
 [cobalt-catalyzed cross-coupling reactions of heterocyclic chlorides with aryl and heterocyclic magnesium halides]

RI 36710-76-4 CAPLOS

CI Isoquinoline, 1-[4-methoxyphenyl]- (CA INDEX NAME)

US CITING REF COUNT: 23 THERE ARE 23 CAPLOS RECORDS THAT CITE THIS RECORD (23 CITINGS)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 NUMBER 9 OF 12 CAPLOS COPYRIGHT 2010 ACS on STM

ACCESSION NUMBER: 2001402445 CAPLOS Full-text

DOCUMENT NUMBER: 138153423

TITLE: Chem, synthesis and biological evaluations of neopterin analogs 3 inhibitors

AUTHOR(S): Kim, Eun-yeon; Lee, Tae-yeon; Yi, Yoo-Tae; Lee, Suk-yeon; Kim, Suk-yeon; Jung, Yong-Tae; Kim, Eunhee; Jeong, Haecheol

CORPORATE SOURCE: Department of Chemistry, Division of Chemistry and Molecular Engineering, Korea University, Seoul, 136-701, S. Korea

SYNOPSIS: (2002), (12), 1992-1994

CODEN: STLEJL ISSN: 0930-5214

OTHER SOURCE(S): Bulletin of the Korean Chemical Society (2002), 23(7), 1007-1010

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138153423

CI



AB Novel compound 3 inhibitors were designed, based on the active sites of the enzyme and their inhibitory activity were evaluated. The arylisoquinoline 1, R = -OMe, R1 = -H, R2 = -H, R3 = -OMe; their R-isomers, and the methoxide of 1 [R = -OMe, R1 = -H, R2 = -H, R3 = -OMe] showed significant inhibitory effects (P < 0.05)

22 3-¹⁴-9-97, 1-[4-methoxyphenyl]isoquinoline

RI: RPH (Synthetic preparation); PRFP (Preparation)

RI 36710-76-4 CAPLOS

CI Isoquinoline, 1-[4-methoxyphenyl]- (CA INDEX NAME)

3 (preparation of aryl-, arylcarbamoyl-, and arylisoquinolines as carapene

inhibitors)

RI 36710-69-7 CAPLOS

CI Isoquinoline, 1-[4-methoxyphenyl]-, 2-oxide (CA INDEX NAME)



RI 36710-76-4 CAPLOS

CI Isoquinoline, 1-[4-methoxyphenyl]- (CA INDEX NAME)



RI 694749-25-6 CAPLOS

CI Isoquinolinium, 1-[4-methoxyphenyl]-2-methyl-, iodide (1:1) (CA INDEX NAME)



US CITING REF COUNT: 3 THERE ARE 3 CAPLOS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 NUMBER 10 OF 12 CAPLOS COPYRIGHT 2010 ACS on STM

US CITING REF COUNT: 3 THERE ARE 3 CAPLOS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 NUMBER 11 OF 12 CAPLOS COPYRIGHT 2010 ACS on STM

ACCESSION NUMBER: 1992461965 CAPLOS Full-text

DOCUMENT NUMBER: 1714190

ORIGINAL REFERENCE NO: 1710215a,10218a

TITLE: Free radical reactions of aromatic amine 3-oxides

AUTHOR(S): Nakamura, Mikutaka; Kaneko, Tetsuhiko; Tanabe, Ryuzo; Japan

CORPORATE SOURCE: JAPAN

SYNOPSIS: (1971), (16), 25-33

CODEN: JPHASG ISSN: 0075-2010



L4 STRUCTURE UPLOADED

=> a 14 new row
SAMPLE SEARCH INITIATED 14/04/04 FILE "REGISTRY"
FULL SEARCH COMPLETED - 144710 ITERATIONS

100 ON PROCESSED 744 ITERATIONS 1 ANIMERS

SEARCH TIME: 00:00:01
FULL FILE PRODUCTIONS: ONLINE **COMPLETED**
BATCH: **UNCOMPLETED**

PROJECTED ITERATIONS: 132444 to 16526

PROJECTED ANIMATIONS: 1 TO 80

L5 1 SEA 555 SAN L4

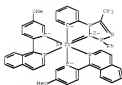
=> d none

L6 1 ANIMERS REGISTRY COPYRIGHT 2010 ACS ON STM

Yukawa, Hisa[2-(1-isopropyl-1H-5-methylphenyl)-N[1,2-bis(methyl-1-phenyl-3-ethyl-1H-imidazol-1-yl)-2,4,6-trisubstituted-4(5R)-yl-5-ylidene]]-3C1

NR 147 133 23 12 35 02

C1 CCS



ALL ANIMERS HAVE BEEN SEARCHED

=> a 14 new Full
FULL SEARCH INITIATED 14/04/04 FILE "REGISTRY"
FULL SEARCH COMPLETED - 144710 ITERATIONS

100 ON PROCESSED 14471 ITERATIONS 12 ANIMERS

SEARCH TIME: 00:00:01

L7 ANIMERS 2 OF 14 CAPUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2008139213 CAPUS FULL INDEX

DOCUMENT NUMBER: 1481154937

TITLE: Organic electroluminescent element arrays employing

organic layers with optimized thickness using

constructive optical interference to improve light

extraction

INVENTOR(S): Furugori, Masahito

PATENT ASSIGNOR(S): Canon Kabushiki Kaisha, Japan

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

COINVENTOR: CEECO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2008004197 A1 20080306 US 2007-845563 20070827

JP 200811474 A 20070706

JP 20080313 JP 2006-232354 20060829

KR 200802059 A 20080305 KR 2007-86357 20070828

FR 241229 A1 20080305 CN 2007-10148529 20070829

JP 2006-232354 A 20080329

AB

Organic electroluminescent (EL) element arrays are described which comprise a

substrate, a first organic EL element emitting red light, a second organic EL

element emitting green light, and a third organic EL element emitting blue

light; the first, second, and third organic EL elements each include a first

electrode, an organic compound layer, and a light-transmissive second

electrode arranged on the substrate in that order; the second electrode of the

first organic EL element has a semitransparent reflective layer; the first

electrode of the first organic EL element has a reflective face and a resonant

structure located between the reflective face and the semitransparent

reflective layer; and third organic EL element has a resonant structure located between a reflective face of the first electrode of the

second or third organic EL element and a light-extracting face of the

transparent layer of the substrate or vice versa; or the substrate

3000-71-1.

IT N/A (Modifier or additive use); TEM (Technical or unperfected material

use); USEE (Use);

dependent in emitting layer; organic electroluminescent element arrays

employing organic layers with optimized thickness using constructive

optical interference to improve light extraction)

20 50062-31-5 CAPUS

CN Trisubstituted-tris[2-(1-isopropyl-1H-5-methylphenyl)-N[1,2-

INDEX NAME]

L6 12 SEA 555 FUL L4

=> file copies

=> a 36

L7 14 L6

=> d 14th new history 1:

YOU HAVE REQUESTED DATA FROM 14 ANIMERS - CONTINUE? (Y/N):

L7 ANIMERS 1 OF 14 CAPUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 20081392460 CAPUS FULL INDEX

DOCUMENT NUMBER: 14916158

TITLE: Organic electroluminescent devices containing main

deposits in nonuniform distribution in host-guest

emitting layers

INVENTOR(S): Nakawake, Masahito Okada, Shinjiro Takiguchi, Takao;

Izumi, Satoshi Kamekura, Masahito Iwasaki, Hiroyuki

Matsukawa, Masahito Iizuka, Yuya

Patent Assignor(S): Canon Inc., Japan

SOURCE: JP Kokai Tokkyo Koho, 17pp

COINVENTOR: CEECO

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2008135547 A 20080612 JP 2006-130276 20061128

JP 2006-130276 20061128

AB

The devices have emitting layers containing 20 main deposit metal complexes

(i.e., deposits) and host materials, where the main deposits among the complexes

are distributed nonuniformly. The devices can be driven at low voltage due to the

presence of low-main deposit-concentration regions in the emitting layers

IT 505532-79-1

PL: N/A (Modifier or additive use); USEE (Use);

(main deposits in emitting layers; organic electroluminescent devices

containing main deposits in nonuniform distribution in host-guest emitting

layers)

20 855532-79-1 CAPUS

CN Trisubstituted-tris[2-(1-isopropyl-1H-5-methylphenyl)-N[1,2-

(OC-4-22)- (CA INDEX NAME)]

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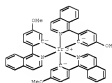
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INDEX NAME]

group which may have a substituent, and hydrogen atom(s) of the alkyl group may be substituted with fluorine atom(s), an amino group, an alkyl group, an aryl group, or a heterocyclic group and R1-R12 each represent, independently of one another, hydrogen atom, halogen atom, alkyl group having C1-C20 which is defined the same way as the one for R1-R4 plus a Ph, naphthyl, pyrenyl, fluorenyl, phenanthrenyl, thienyl, fluorethynyl, triphenylmethyl, or tetraphenylmethoxy group, or a heterocyclic group which may have a substituent, and adjacent ones of R1-R12 may be joined to form a ring structure. An organic electroluminescent device comprising a light-emitting layer comprising the compound is also described. An image display apparatus comprising the organic EL device is also described.

11 US 2006/0111495
 RI: N/A (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 Light emitting layers; compound for organic EL device and light-emitting device
 RI 500602-31-5 CAPUS
 RI Iridium, tri[2-(1-isopropenyl)-4-methoxyphenyl]-AC] - (CA INDEX NAME)



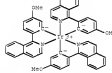
L1: ANSWER 4 OF 14 CAPUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 20071137050 CAPUS Publ. 1495
 DOCUMENT NUMBER: 1471405962
 TITLE: Fluorene and organic electroluminescent device using them
 INVENTOR(S): Ikeno, Satoshi; Ohno, Shinjiro; Takiguchi, Takao
 SOURCE: Hashimoto, Masahiko; Otsuki, Ryota
 CANON INC., Japan
 PARENT ASSIGNMENT(S): SGN, Royal Tokaiyo Kohn, Japp.
 COBEN CODEXAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: Chinese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007009376				
US 2007072921	A1	20071229	US 2006-135979	20060516
FR 2918298			US 2006-135979	20060516

PRIORITY APPROPRIATION: YES
 OTHER SOURCE(S): MARPAT 1471505962
 G1

JP 440209
 US 2007072921
 RI: N/A (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 High efficiency multicolor organic light emitting device
 RI 500602-31-5 CAPUS
 CN Iridium, tri[2-(1-isopropenyl)-4-methoxyphenyl]-AC] - (CA INDEX NAME)

AB The title multicolor organic light emitting device comprises a substrate, and multiple organic light emitting elements on the substrate. The light emitting elements include a first organic light emitting element of a first emission color light, and a second organic light emitting element of a second emission color light different from the first emission color light. The first organic light emitting element includes a first electrode made of a first material, an organic compound layer at least including a light emitting layer, and a light transmitting second electrode arranged in sequence from the substrate side. The second organic light emitting element includes a first electrode made of a second material with a reflection index and a phase shift different from those of the first material, an organic compound layer at least including a light emitting layer, and a second electrode arranged in sequence from the substrate side. The multicolor organic light emitting device has high efficiency.



QA CITING REF COUNT: 2 THERE ARE 2 CAPUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

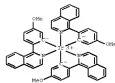
L1: ANSWER 6 OF 14 CAPUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 20071137050 CAPUS Publ. 1495
 DOCUMENT NUMBER: 1471405955
 TITLE: Preparation of cyclometallated iridium complex as organic electroluminescence device
 INVENTOR(S): Kawanishi, Yuzi; Ohno, Shinjiro; Takiguchi, Takao
 SOURCE: Canon Kabushiki Kaisha, Japan
 U.S. Pat. App. Publ., 35 pp.
 COBEN CODEXAP
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: Chinese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007009376				
US 2007072921	A1	20071229	US 2006-135979	20060516
FR 2918298			US 2006-135979	20060516

PRIORITY APPROPRIATION: YES
 OTHER SOURCE(S): MARPAT 1471505962
 G1



AB The fluorine atoms R1, R2 = H, C1-20 alkyl, aryl; Al, AZ = H, C1-20 alkyl, aryl, heterocyclic; R3 of Al and A2 = 2-carboxyl; R1, R2-R10 = H, halo, C1-20 alkyl, aryl, heterocyclic; n = 2-8. Preferably, the electroluminescent devices have emitter layers containing 1 or more of the above coordination compounds. The devices show high luminance efficiency and intensity, and long service life.
 IT US 2006/0111495
 RI: N/A (Modifier or additive use); USES (Uses)
 (Notes: Fluorescence as hosts for emitter layers for organic electroluminescent devices)
 RI 500602-31-5 CAPUS
 CN Iridium, tri[2-(1-isopropenyl)-4-methoxyphenyl]-AC] - (CA INDEX NAME)



L1: ANSWER 5 OF 14 CAPUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 20071137050 CAPUS Publ. 1495
 DOCUMENT NUMBER: 1471405955
 TITLE: High efficiency multicolor organic light emitting device
 INVENTOR(S): Kawanishi, Yuzi; Ohno, Shinjiro; Takiguchi, Takao
 SOURCE: Canon Inc., Japan
 SGN Kabushiki Kaisha Genshi Shikagaku Kenkyujo, Jpp
 COBEN CODEXAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: Chinese

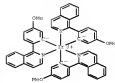
STENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 10204203	A	20071003	CH 2007-100141	20070330
JP 2007123231	A	20071010	JP 2006-9674	2900331

US 2007022803
 AL 20071004
 JP 2007072921
 JP 2006-99982
 A 20060331
 RI: N/A (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 High efficiency multicolor organic light emitting device
 RI 500602-31-5 CAPUS
 CN Iridium, tri[2-(1-isopropenyl)-4-methoxyphenyl]-AC] - (CA INDEX NAME)



AB The invention provides a method for producing an iridium complex I (I = monovalent bidentate ligand having unsubstituted aromatic or heterocyclic ring; R1 = H, halo, heteroatom (unsubstituted C1-20 linear or branched alkyl group, etc.); R2 = O, S, Se, Te, etc.) with a high yield at a low temperature, and an organic electroluminescence device (organic EL device) having an light output high in efficiency and high luminance in a blue from blue to red region. An iridium complex for the organic EL device is produced from an iridium complex having a trisubstituted ring structure as an auxiliary ligand. The organic EL device is composed of at least a pair of electrodes serving as an anode and a cathode, and an organic compound layer interposed between the electrodes, and the organic compound layer contains an iridium complex.

IT US 2006/0111495
 RI: N/A (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (Preparation of cyclometallated iridium complex as organic electroluminescence device)
 RI 500602-31-5 CAPUS
 CN Iridium, tri[2-(1-isopropenyl)-4-methoxyphenyl]-AC] - (CA INDEX NAME)

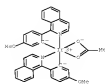


IT US 2006/0111495
 RI: N/A (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (Preparation of cyclometallated iridium complex as organic electroluminescence device)
 RI 500602-31-5 CAPUS
 CN Iridium, tri[2-(1-isopropenyl)-4-methoxyphenyl]-AC] - (CA INDEX NAME)

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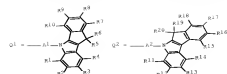
951164-54-8 CAPLUS
Iridium, (acetato-κO,κO')bis[2-(1-isoquinalinyl-κN)-5-
methoxyphenyl-κC]- (CA INDEX NAME)

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L1: NUMBER 7 OF 1 CAPLUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 2006-04-1986 ACS FULL-TEXT
 DOCUMENT NUMBER: 145125393
 TITLE: 1,4-Dioxane derivatives, organic electroluminescent devices thereof, and displays thereof
 INVENTOR(S): Igawa, Satoshi; Takiguchi, Takao; Ogas, Shinjiro; Konstanti, Alenka; Hamamoto, Masahiko; Kurokawa, Masako
 PATENT ASSIGNMENT(S):
 SCORE(S):
 DOCUMENT TYPE: Jpn. Kokai Tokkyo Koho, 17pp.
 LANGUAGE(S): CODE(S): JGCPAP
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: Patent

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006219393	A	20060824	JP 2005-32802	20050209
PRIORITY AFFILI. INFO.:			JP 2005-32802	20050209
OTHER SOURCE(S):	WARPAT	145:259393		
BT				



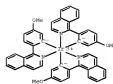
AB The compounds having (substituted) indenoindole-containing partial structures, preferably represented by Q1 or Q2 (A1, A2 = single bond, arylene, divalent heterocycle, --R^{20} = --H , halo, $\text{C}1\text{--}20$, alkyl, --aryl), are also claimed. The compounds show high solvent solubility, form stable amorphous deposited films, and are useful for host materials of organic LED. Organic EL devices/displays containing the compounds in 21 of organic layers, showing high luminescent efficiency and durability, are also claimed.

IT 4066257-5

EL: DEV (Device component use); USES (Uses)
(quest, emitting layers; indenoinole derivs. showing stable glassy
state and useful for host materials of organic EL displays)

RN 906062-31-5 CAPLUS

CN Iridium, tris[2-(1-isoquinoliny-4N)-5-methoxyphenyl-KC]= (CA
IRIDUM NAME)

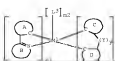


03 NUMBER: 8 of 14 CAPLUS COPYRIGHT 2010 ACS on STM
 ACCESSION NUMBER: 20061612152 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 145112952
 TITLE: Metal complexes with nucleophilic carbene ligands and
 devices and processes using them
 INVENTOR(S): Pretot, Roger; Van Der Schaet, Paul Adriaan; Schmidt,
 Johannes; Schindhalter, Beat; Schaefer, Thomas;
 Lemstra, Berno
 PATENT ASSIGNER(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: ECT Int. Appl., 149 pp.
 CODEN: XXXX02

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC NUM- COUNT: 1
PATENT INFORMATION:

[illegible]

OTHER SOURCE(S): MARPAT 145:112952

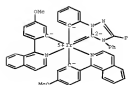


35 The title complexes are described by the general formula I (ring A = an optionally substituted aryl group which can optionally contain heteroatom; ring B = an optionally substituted nitrogen-containing aryl group, which can optionally contain further heteroatom; ring A and ring B may be bonded to form a ring; group C = an acyclic carbonyl or a cyclic carbonyl which can

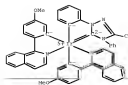
optionally contain heteroatoms, ring D is optionally substituted aryl group which can optionally contain heteroatoms, $m = 1, 2$, $n = 0, 1$, or 2 , $a = 0, 1$, or 2 , $b = 0, 1$, or 2 , $c = 0, 1$, or 2 , $d = 0, 1$, or 2 , $e = 0, 1$, or 2 , $f = 0, 1$, or 2 , $g = 0, 1$, or 2 , $h = 0, 1$, or 2 , $i = 0, 1$, or 2 , $j = 0, 1$, or 2 , $k = 0, 1$, or 2 , $l = 0, 1$, or 2 , $m = 0, 1$, or 2 , $n = 0, 1$, or 2 , $o = 0, 1$, or 2 , $p = 0, 1$, or 2 , $q = 0, 1$, or 2 , $r = 0, 1$, or 2 , $s = 0, 1$, or 2 , $t = 0, 1$, or 2 , $u = 0, 1$, or 2 , $v = 0, 1$, or 2 , $w = 0, 1$, or 2 , $x = 0, 1$, or 2 , $y = 0, 1$, or 2 , $z = 0, 1$, or 2 , $aa = 0, 1$, or 2 , $ab = 0, 1$, or 2 , $ac = 0, 1$, or 2 , $ad = 0, 1$, or 2 , $ae = 0, 1$, or 2 , $af = 0, 1$, or 2 , $ag = 0, 1$, or 2 , $ah = 0, 1$, or 2 , $ai = 0, 1$, or 2 , $aj = 0, 1$, or 2 , $ak = 0, 1$, or 2 , $al = 0, 1$, or 2 , $am = 0, 1$, or 2 , $an = 0, 1$, or 2 , $ao = 0, 1$, or 2 , $ap = 0, 1$, or 2 , $aq = 0, 1$, or 2 , $ar = 0, 1$, or 2 , $as = 0, 1$, or 2 , $at = 0, 1$, or 2 , $au = 0, 1$, or 2 , $av = 0, 1$, or 2 , $aw = 0, 1$, or 2 , $ax = 0, 1$, or 2 , $ay = 0, 1$, or 2 , $az = 0, 1$, or 2 , $ba = 0, 1$, or 2 , $bb = 0, 1$, or 2 , $bc = 0, 1$, or 2 , $bd = 0, 1$, or 2 , $be = 0, 1$, or 2 , $bf = 0, 1$, or 2 , $bg = 0, 1$, or 2 , $bh = 0, 1$, or 2 , $bi = 0, 1$, or 2 , $bj = 0, 1$, or 2 , $bk = 0, 1$, or 2 , $bl = 0, 1$, or 2 , $bm = 0, 1$, or 2 , $bn = 0, 1$, or 2 , $bo = 0, 1$, or 2 , $bp = 0, 1$, or 2 , $bq = 0, 1$, or 2 , $br = 0, 1$, or 2 , $bs = 0, 1$, or 2 , $bt = 0, 1$, or 2 , $bu = 0, 1$, or 2 , $bv = 0, 1$, or 2 , $bw = 0, 1$, or 2 , $bx = 0, 1$, or 2 , $by = 0, 1$, or 2 , $bz = 0, 1$, or 2 , $ca = 0, 1$, or 2 , $cb = 0, 1$, or 2 , $cc = 0, 1$, or 2 , $cd = 0, 1$, or 2 , $ce = 0, 1$, or 2 , $cf = 0, 1$, or 2 , $cg = 0, 1$, or 2 , $ch = 0, 1$, or 2 , $ci = 0, 1$, or 2 , $cj = 0, 1$, or 2 , $ck = 0, 1$, or 2 , $cl = 0, 1$, or 2 , $cm = 0, 1$, or 2 , $cn = 0, 1$, or 2 , $co = 0, 1$, or 2 , $cp = 0, 1$, or 2 , $cq = 0, 1$, or 2 , $cr = 0, 1$, or 2 , $cs = 0, 1$, or 2 , $ct = 0, 1$, or 2 , $cu = 0, 1$, or 2 , $cv = 0, 1$, or 2 , $cw = 0, 1$, or 2 , $cx = 0, 1$, or 2 , $cy = 0, 1$, or 2 , $cz = 0, 1$, or 2 , $da = 0, 1$, or 2 , $db = 0, 1$, or 2 , $dc = 0, 1$, or 2 , $dd = 0, 1$, or 2 , $de = 0, 1$, or 2 , $df = 0, 1$, or 2 , $dg = 0, 1$, or 2 , $dh = 0, 1$, or 2 , $di = 0, 1$, or 2 , $dj = 0, 1$, or 2 , $dk = 0, 1$, or 2 , $dl = 0, 1$, or 2 , $dm = 0, 1$, or 2 , $dn = 0, 1$, or 2 , $do = 0, 1$, or 2 , $dp = 0, 1$, or 2 , $dq = 0, 1$, or 2 , $dr = 0, 1$, or 2 , $ds = 0, 1$, or 2 , $dt = 0, 1$, or 2 , $du = 0, 1$, or 2 , $dv = 0, 1$, or 2 , $dw = 0, 1$, or 2 , $dx = 0, 1$, or 2 , $dy = 0, 1$, or 2 , $dz = 0, 1$, or 2 , $ea = 0, 1$, or 2 , $eb = 0, 1$, or 2 , $ec = 0, 1$, or 2 , $ed = 0, 1$, or 2 , $ee = 0, 1$, or 2 , $ef = 0, 1$, or 2 , $eg = 0, 1$, or 2 , $eh = 0, 1$, or 2 , $ei = 0, 1$, or 2 , $ej = 0, 1$, or 2 , $ek = 0, 1$, or 2 , $el = 0, 1$, or 2 , $em = 0, 1$, or 2 , $en = 0, 1$, or 2 , $eo = 0, 1$, or 2 , $ep = 0, 1$, or 2 , $eq = 0, 1$, or 2 , $er = 0, 1$, or 2 , $es = 0, 1$, or 2 , $et = 0, 1$, or 2 , $eu = 0, 1$, or 2 , $ev = 0, 1$, or 2 , $ew = 0, 1$, or 2 , $ex = 0, 1$, or 2 , $ey = 0, 1$, or 2 , $ez = 0, 1$, or 2 , $fa = 0, 1$, or 2 , $fb = 0, 1$, or 2 , $fc = 0, 1$, or 2 , $fd = 0, 1$, or 2 , $fe = 0, 1$, or 2 , $ff = 0, 1$, or 2 , $fg = 0, 1$, or 2 , $fh = 0, 1$, or 2 , $fi = 0, 1$, or 2 , $fj = 0, 1$, or 2 , $fk = 0, 1$, or 2 , $fl = 0, 1$, or 2 , $fm = 0, 1$, or 2 , $fn = 0, 1$, or 2 , $fo = 0, 1$, or 2 , $fp = 0, 1$, or 2 , $fq = 0, 1$, or 2 , $fr = 0, 1$, or 2 , $fs = 0, 1$, or 2 , $ft = 0, 1$, or 2 , $fu = 0, 1$, or 2 , $fv = 0, 1$, or 2 , $fw = 0, 1$, or 2 , $fx = 0, 1$, or 2 , $fy = 0, 1$, or 2 , $fz = 0, 1$, or 2 , $ga = 0, 1$, or 2 , $gb = 0, 1$, or 2 , $gc = 0, 1$, or 2 , $gd = 0, 1$, or 2 , $ge = 0, 1$, or 2 , $gf = 0, 1$, or 2 , $gg = 0, 1$, or 2 , $gh = 0, 1$, or 2 , $gi = 0, 1$, or 2 , $gj = 0, 1$, or 2 , $gk = 0, 1$, or 2 , gl

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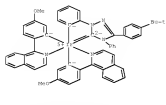
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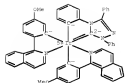
CN Iridium, bis[2-(4-isoquinolinyl-4S)-5-methoxyphenyl-WC][1,2-phenylene[4-phenyl-3-(trifluoromethyl)-1H-1,2,4-triazol-1-yl-5-(4S)-ylidene]]- (9CI) (CA INDEX NAME)



KM 895546-70-0 CAPLUS
 CM Iridium, [13-(4-(1,3-dimethylethyl)phenyl)-4-phenyl-1H-1,2,4-triazol-3-yl-5-(4H)-ylidene]-1,2-phenylene]bis[2-(1-isoquinolyl)-NH)-5-methoxyphenyl-KC] (C1) (CA INDEX NAME)



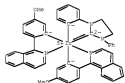
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KM 895549-41-4 CAPLUS
 CM Iridium, bis[2-(1-isoquinolyl)-NH)-5-methoxyphenyl-KC][1,2-phenylene-1-phenyl-3-trifluoromethyl-3H-1,2,4-triazol-4(5H)-yl-5-ylidene)] (C1) (CA INDEX NAME)



KM 895554-12-8 CAPLUS
 CM Iridium, bis[2-(1-isoquinolyl)-NH)-5-methoxyphenyl-KC][1,2-phenylene-1-phenyl-3-imidazolyl-2-ylidene)] (C1) (CA INDEX NAME)



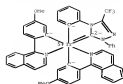
US CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITE(S))
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE 18 FORMAT

LT NUMBER 9 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STM
 ACCESSION NUMBER: 20061517153 CAPLUS Full-Text
 DOCUMENT NUMBER: 14917468

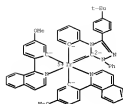
TITLE: Phenanthroline compounds and light-emitting devices employing the phenanthroline compounds as a host in light-emitting layer
 INVENTOR(S): Tzuya, Satoshi; Shida, Shinjiro; Takaguchi, Takao; Furuyoshi, Masahito
 PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Japan
 SOURCE: U.S. Pat. Appl. Publ., 12 pp
 CODE(S): US2006020620
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC NUM COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006119476	A1	20060601	US 2005-272726	20051119
US 7317096	B2	20090414		
JP 2006151844	A	20060429	JP 2004-344061	20041129

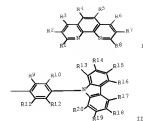
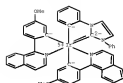
PRIORITY APPL. INFO: JP 2004-344061 A 20041129
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN L058 DISPLAY FORMAT
 OTHER SOURCE(S): MAGNET 14917468
 51



KM 895555-09-3 CAPLUS
 CM Iridium, [13-(4-(1,3-dimethylethyl)phenyl)-3-phenyl-1H-1,2,4-triazol-4(5H)-yl-5-ylidene]-1,2-phenylene]bis[2-(1-isoquinolyl)-NH)-5-methoxyphenyl-KC] (C1) (CA INDEX NAME)



KM 895555-25-7 CAPLUS
 CM Iridium, bis[2-(1-isoquinolyl)-NH)-5-methoxyphenyl-KC][1,2-phenylene-1-phenyl-3-imidazol-1-yl-2-(3H)-ylidene)] (C1) (CA INDEX NAME)

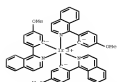


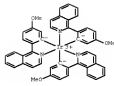
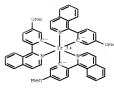
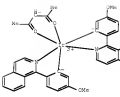
AB Novel phenanthroline compds. are provided which are suitable for use in organic electroluminescent device and are represented by the general formula (I), where R1-R10 are each independently a hydrogen atom, an alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, or a halogen atom with the proviso that at least one of R1-R10 is a group represented by the general formula (II) in which R3-R20 are each independently a hydrogen atom, an alkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, or a halogen atom. Highly efficient electroluminescent devices employing the phenanthroline derive as host in the light-emitting layer are also discussed.

IT 255532-07-0
 R1a DEV (Device component use); MOD (Modifier or additive use); USES (Uses)

LUMINESCENT DEPOSIT; PHENANTHROLINE COMPS. AND LIGHT-EMITTING DEVICES EMPLOYING PHENANTHROLINE COMPS. AS HOST IN LIGHT-EMITTING LAYER

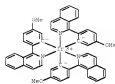
KM 895555-89-7 CAPLUS
 CM Iridium, tris[2-(1-isoquinolyl)-NH)-5-methoxyphenyl-KC] (C1) (CA INDEX NAME)





AB title compds. are 1 (R1, R21, R22 = H, halo, C1-20 alkyl (having CH2 substituted with O, S, P, etc.), (substituted) amino, allyl, aryl, heterocyclyl, (substituted) alkenyl) R1 = substituents other than carboxalo- containing ones; R2 = H, R21, and R22 = 2-fluorenyl II (R1-R21 = H, halo, C1-20 alkyl (having CH2 substituted with O, S, P, etc.), (substituted) amino, etc.) or (not repeated structure) Thus, an organic electroluminescent device having an emitter layer containing I (R1 = R21 = R22 = 2,9-dimethyl-2-fluorenyl) and phosphorescent Ir complex dopant is exemplified.

IT $\lambda_{\text{em}} = 610 \text{ nm}$
 RI: DEV (Device component use); MCA (Modifier or additive use); USES (Uses)
 (Image)
 (phosphorescent dopant for emitter layer; fluorenylcarbazoles for organic electroluminescent devices and displays)
 R01 85532-19-1 CAPLOS
 C01 Iridium, tris[2-(11-isooquinolinyl)-40-5-methoxyphenyl-4C]-, (OC-4-22) (CA INDEX NAME)



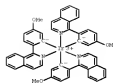
US CITING REF COUNT: 2 THERE ARE 2 CAPLOS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L1 NUMBER 14 of 14 CAPLOS CONTAINS 2010 ACS on STM
 ACCESSION NUMBER: 2025136313 CAPLOS Full-Text
 DOCUMENT NUMBER: 14378282
 TITLE: Substituent effects of Iridium complexes for highly efficient red OLEDs
 AUTHOR(S): Okada, Hiroyuki; Okabe, Keiji; Tawaki, Hirotsugu; Furugori, Masahito; Hashimoto, Masahito; Mukai, Taisuke; Kuroki, Toshiyuki; Saito, Tetsuya; Akita, Takahito; Tama, Tetsu; Kuroki, Toshiyuki
 COMPANY SOURCE: Canon Inc., 1-1, Muromatsu Nakagyo, Atsugi-shi, Japan
 SOURCE: Dalton Transactions (2005), (9), 1583-1590
 CODEN: OTANAC; ISSN: 1477-9226
 FORLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14378282

AB This study reports substituent effects of Iridium complexes with 1-phenylisooquinoline ligands. The emission spectra and phosphorescence quantum yields of the complexes differ from that of tris(1-phenylisooquinolinato-

C2,N1ir3d4tao111) (Irqpi) depending on the substituents. The maximum emission peak, quantum yield and lifetime of those complexes ranged from 590-635 nm, 0.11-0.32 and 1.07-2.34 ps, resp. This indicates the nature of the substituents has a significant influence on the kinetics of the excited-state decay. The substituents attached to the ring have an influence on a stability of the IRQ. Furthermore, those substituents have effects on the contribution to a mixing between 3K⁺ and 3MCT for the lowest excited states. Some of the complexes display the larger quantum yield than Irqpi, which has the quantum yield of 0.22. The organic light emitting diode (OLED) device based on Irqpi [1-(6-fluoro-3-methylphenyl)isooquinolato-C2,N1iridium(III)] (IrqpiF3M) yielded high external quantum efficiency of 15.18 and a power efficiency of 32.4 lm W⁻¹ at a luminance of 218 cd m⁻². An emission color of the device was close to an RTTC specification with CIE chromaticity characteristics of (0.66, 0.34).

IT $\lambda_{\text{em}} = 610 \text{ nm}$
 RI: CFS (Chemical process); FFS (Physical, engineering or chemical process); FPF (Preparation); SPP (Synthetic preparation); FPF (Preparation); FPF (Process)
 (preparation and substituent effects of cyclometallated phenylisooquinoline Iridium complexes for highly efficient red OLEDs)
 R01 85532-19-1 CAPLOS
 C01 Iridium, tris[2-(11-isooquinolinyl)-40-5-methoxyphenyl-4C]-, (OC-4-22) (CA INDEX NAME)



US CITING REF COUNT: 49 THERE ARE 49 CAPLOS RECORDS THAT CITE THIS RECORD (49 CITINGS)
 REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE PDF FORMAT

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